## (19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 21 May 2004 (21.05.2004)

**PCT** 

## (10) International Publication Number WO 2004/041198 A3

(51) International Patent Classification<sup>7</sup>: 31/70

A61K 47/00,

(21) International Application Number:

PCT/US2003/034844

(22) International Filing Date: 31 October 2003 (31.10.2003)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

 60/423,119
 1 November 2002 (01.11.2002)
 US

 10/326,549
 19 December 2002 (19.12.2002)
 US

 10/685,125
 13 October 2003 (13.10.2003)
 US

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- (81) Designated States (national): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (regional): ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

## **Published:**

- with international search report
- before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments
- (88) Date of publication of the international search report: 2 December 2004

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: HEAT PASTEURIZED LIQUIDS CONTAINING GLUCOSAMINE

(57) Abstract: The disclosure provides methods of making heat-pasteurized liquids, such as beverages, that contain glucosamine, wherein glucosamine is present in the beverage during the pasteurization process. The disclosure also provides liquids, such as beverages, made by these methods, as well as methods of using the glucosamine supplemented liquids, for example to treat osteoarthritis.

## INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/34844

A. CLASSIFICATION OF SUBJECT MATTER			
IPC(7) : A61K 47/00, 31/70 US CL : 424/439, 514/42			
According to International Patent Classification (IPC) or to both national classification and IPC			
B. FIELDS SEARCHED			
Minimum documentation searched (classification system followed by classification symbols)  U.S.: 424/439, 514/42			
Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched			
Electronic data base consulted during the international search (name of data base and, where practicable, search terms used) CAS ONLINE MEDLINE, search terms: glucosamine, beverage, drink, juice, pasteurization, levulinic acid, melanoidins			
C. DOCUMENTS CONSIDERED TO BE RELEVANT			
Category *	Citation of document, with indication, where a	appropriate, of the relevant passages	Relevant to claim No.
X	US 6,432,929 B1 (STONE) 13 August 2002, abstract, columns 5-8, the examples and the		1-7
Ÿ	claims.		8-16
Y	JP 2001-000158 A (YOKOO et al.) 09 January 2001 (09.01.2001), see the abstract, the		1-16
Y	claims.   US 5,520,933 A (YOSHIDA et al) 28 May 1996 (28.05.1996) column 3, lines 1-7.		12-15
Y	JP 53-020443 A (ASAMA) 24 February 1978 (24.02.1978) the abstract.		12-15
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Further documents are listed in the continuation of Box C. See patent family annex.			
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"P" document published prior to the international filing date but later than the priority date claimed .		"&" document member of the same patent f	amily
Date of the actual completion of the international search		Date of mailing of the international search report	
17 September 2004 (17.09.2004)		Authorized officer Shengjun Wang  Telephone No. (703) 305-1235	
Name and mailing address of the ISA/US  A		Aythorized officer	
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P.O. Box 1450		Telephone No. (703) 305-1235	for
Facsimile No. (703) 305-3230			
Form PCT/ISA/210 (second sheet) (July 1998)			